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## SEQUENCE LISTING

<110> Fujisawa Pharmaceutical Co., Ltd.

<120> New methods for selecting an immunosuppressive agent having the reduced risk of causing thrombocytopenia as its side effect

<130> PW023998

<140> PCT/JP03/08621

<141> 2003-07-07

<150> JP 2002-203901

<151> 2002-07-12

<160> 17

<170> PatentIn version 3.1

<210> 1

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer-1

<400> 1

tcgctagcct gagtatttaa caatgcacc ct

32

<210> 2

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer- 2

<400> 2

cgaagcttgt ggcaggagtt gaggttactg

30

<210> 3

<211> 30

<212> DNA

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: PCR primer-3

&lt;400&gt; 3

cgctagctgc tcttgccac cacaatatgc

30

&lt;210&gt; 4

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: PCR primer-4

&lt;400&gt; 4

atagatctat ccctggctcc cacctcag

28

&lt;210&gt; 5

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: PCR primer-5

&lt;400&gt; 5

ataagctttg gtggttcgg agggttcg

28

&lt;210&gt; 6

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: PCR primer-6

&lt;400&gt; 6

atggtaccac cccagaagat gccaggag

28

&lt;210&gt; 7

&lt;211&gt; 28

&lt;212&gt; DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer- 7

<400> 7

atgctagcgc cctctgagcc tcagtttc

28

<210> 8

<211> 731

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(731)

<223> Human interleukin-2 (IL-2) gene 5'-flanking region

<220>

<221> TATA\_signal

<222> (652)..(657)

<223>

<220>

<221> misc\_feature

<222> (676)..(657)

<223> The putative transcription initiation site of the IL-2 gene promoter

<220>

<221> misc\_feature

<222> (1)..(731)

<223> Corresponding to the sequence (689-1416) in the GenBank database (Accession: X00695), except for several variations.

<220>

<221> variation

<222> (38)..(731)

<223> 1 bp insertion

<220>

<221> variation

<222> (196)..(731)

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&lt;223&gt; T to A exchange

&lt;220&gt;

&lt;221&gt; variation

&lt;222&gt; (346).. (731)

&lt;223&gt; T to G exchange

&lt;220&gt;

&lt;221&gt; variation

&lt;222&gt; (577).. (731)

&lt;223&gt; T to A exchange

&lt;220&gt;

&lt;221&gt; variation

&lt;222&gt; (688).. (689)

&lt;223&gt; 2 bp insertion (CT)

&lt;400&gt; 8

ctgagtattt aacaatcgca ccctttaaaa aatgtacaat agacattaag agacttaaac	60
agatatataa tcatttttaa ttaaaatagc gttaaacagt acctcaagct caataagcat	120
ttaaagtatt ctaatcttag tatttctcta gctgacatgt aagaagcaat ctatcttatt	180
gtatgcaatt agctcattgt gtggataaaa aggtaaaacc attctgaaac aggaaaccaa	240
tacaattcct gttaaatcaa caaatctaaa catttattct tttcatctgt ttactcttgc	300
tctgtccac cacaatatgc tattcacatg ttcagtgtag ttttaggaca aagaaaattt	360
tctgagttac tttgtatcc ccacccctt aaagaaagga ggaaaaactg tttcatacag	420
aaggcgtaa ttgcatgaat tagagctatc acctaatgt gggctaattg aacaaagagg	480
gatttcacct acatccattc agtcagtott tgggggttta aagaaattcc aaagagtc	540
cagaagagga aaaatgaagg taatgtttt tcagacaggt aaagtcttg aaaatatgtg	600
taatatgtaa aacattttga caccoccata atatttttcc agaattaaca gtataaattg	660
catctcttgt tcaagagttc cctatcactc tctttaatca ctactcacag taacctcaac	720
tctgccaca a	731

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<210> 9  
 <211> 819  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(819)  
 <223> Human GATA- 1 gene promoter region

<220>  
 <221> misc\_feature  
 <222> (1)..(819)  
 <223> Corresponding to the sequence (5342-6160) reported by K. Blechschmidt et al. / GenBank (Accession: AF196971)

<220>  
 <221> misc\_feature  
 <222> (790)..(819)  
 <223> The putative transcription initiation site of the GATA-1 gene promoter

<400> 9  
 atccctggct cccacctcag ttcccccct ccaaggcagc atggcgggca agaagttgag 60  
 gccactgtcc ctgggtgttc ctacccccac accctcacc caagacagcc tggtactgcg 120  
 gcgccaacag ccacggtgc ctacatctga taagacttat ctgctgcccc agggcaggcc 180  
 ggagctggcg taagccccag tggggcgcta agtgagtgtg cccctgcctc ccgccagcac 240  
 tggcctggcc tgcaggctta gcctgggtca tcaaggtatc ccacaggctc tagttcaa 300  
 ccagcagaac ctctctgagc ctactcttc tcacctcaa aatgggtaca gccacatccc 360  
 ttctctccct gcagccagga agacgcacat acacaggagt ctagccaca ccggccccgc 420  
 acaaattaag ggctttactc tctgaaaagc ccagtgaagt catgaaacca tatctgctat 480  
 ttctatttat cttggtttca gcctattttg cttgtctgga cactacagtc cactggagcc 540  
 taggtcgagc gaggtccaag aatccccagg gtgggcaggg aggggtggaag agggcctcca 600  
 gtgccaaga ggtgccccac aagcatggga cccgccccct cccctggact gccccacca 660

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ctggggcacc agccactccc tggggaggag ggaggaggga gaaggaggag agggaggag 720  
 ggaggaagg agcctcaaag gccaaaggcca gccaggacac cccctgggat cacactgagc 780  
 ttgccacatc cccaaggcgg ccgaaccctc cgcaaccac 819

<210> 10  
 <211> 637  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(637)  
 <223> Human GATA- 1 gene enhancer region

<220>  
 <221> misc\_feature  
 <222> (1)..(637)  
 <223> Corresponding to the sequence (2362-2998) reported by K. Blechs  
 chmidt et al. / GenBank (Accession: AF196971)

<400> 10  
 accccagaag atgccaggag ggagtgagcc agtcaggga ggcttccgag aagagaggac 60  
 attgaagaag agtctcaaac ttaggcctga cggagaagac gcgcggccag gacacccac 120  
 cccgcctc gtctcccca aagcctgac tggcccact gattccctta tctgcccact 180  
 cccagctgcc tccttgctgg ctgaactgtc gccgcagact tctgagcctg cgcctctcc 240  
 acggggatgg gggagggaat ggggtgaggc ctggcctcac agcctcgggg tttccagctc 300  
 ttgttgagg cagggtcttg gggogcccta ctctcacc ttggcttctc ttctgagcg 360  
 ctctgtgctc tccagaaatg aagaaatggg gtgagtccag cggccaaacc cttgtcttag 420  
 ctcttagaca tgcctogagc ctgccattcc ctgtgaggac agatttcct atgttgagc 480  
 cgctgcttct aataataata atgatgatga taattccat ttacagagca caccatttat 540  
 ggtgtgccag caggccctgt gctgagtgg tctacccac gtggggggct aggactttac 600  
 ccgttttcca gatgaagaaa ctgaggctca gagggcg 637

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<210> 11  
<211> 434  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)..(434)  
<223> Human interleukin-2 (IL-2) gene 5'-flanking region

<220>  
<221> TATA\_signal  
<222> (355)..(360)  
<223>

<220>  
<221> misc\_feature  
<222> (379)..(360)  
<223> The putative transcription initiation site of the IL-2 gene promoter

<220>  
<221> misc\_feature  
<222> (1)..(434)  
<223> Corresponding to the sequence (+985 to +1416 ) in the GenBank database (Accession: X00695), except for several variations.

<220>  
<221> variation  
<222> (49)..(434)  
<223> T to G exchange

<220>  
<221> variation  
<222> (280)..(434)  
<223> T to A exchange

<220>  
<221> variation  
<222> (391)..(392)  
<223> 2 bp insertion (CT)

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<400> 11  
 tgctcttgtc caccacaata tgctattcac atgttcagtg tagttttagg acaaagaaaa 60  
 ttttttgagt tacttttgta tccccacccc cttaaagaaa ggaggaaaaa ctgtttcata 120  
 cagaaggcgt taattgcatg aattagagct atcacctaag tgtgggctaa tgtaacaaag 180  
 agggatttca cctacatcca ttcagtcagt ctttgggggt ttaaagaaat tccaaagagt 240  
 catcagaaga ggaaaaatga aggtaatggt ttttcagaca ggtaaagtct ttgaaaatat 300  
 gtgtaatatg taaaacattt tgacaccccc ataatatatt tccagaatta acagtataaa 360  
 ttgcatctct tgttcaagag ttccctatca ctctotittaa tcaactactca cagtaacctc 420  
 aactcctgcc acaa 434

<210> 12  
 <211> 59  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> CEBP-11, synthetic DNA

<400> 12  
 cgcgttgagc aagacttgag caagtacttg agcaagcgtt gagcaaggct tgagcaago 59

<210> 13  
 <211> 59  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> CEBP-12, synthetic DNA

<400> 13  
 tcgagcttgc tcaagccttg ctcaacgctt gctcaagtac ttgctcaagt cttgctcaa 59

<210> 14  
 <211> 51  
 <212> DNA  
 <213> Artificial Sequence



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&lt;220&gt;

&lt;223&gt; HSE-11, synthetic DNA

&lt;400&gt; 14

cgcgctctaga atgttctaga tctagaacat tctagctaga atgttctaga c

51

&lt;210&gt; 15

&lt;211&gt; 51

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; HSE-12, synthetic DNA

&lt;400&gt; 15

tcgagtctag aacattctag ctagaatgtt ctagatctag aacattctag a

51

&lt;210&gt; 16

&lt;211&gt; 651

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; GATA-1 gene HSI region (mutant).

&lt;220&gt;

&lt;221&gt; mutation

&lt;222&gt; (178)..(178)

&lt;223&gt; in vitro mutation (from "a" to "g")

&lt;220&gt;

&lt;221&gt; mutation

&lt;222&gt; (519)..(519)

&lt;223&gt; in vitro mutation (from "t" to "g")

&lt;400&gt; 16

ctacgcgtac cccagaagat gccaggaggg agtgagccag tcagggaagg cttccgagaa 60

gagaggacat tgaagaagag tctcaaactt aggcctgacg gagaagacgc gcggccagga 120

caccacccc ccgcctcgt ctccccaaa gcctgatctg gcccactga ttcccttgtc 180

tgcccactcc cagctgcctc cttgctggct gaactgtcgc cgcagacttc tgagcctgcg 240

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ccccctccac ggggatgggg gagggaatgg ggtgaggcct ggcctcacag cctcggggtt 300
tccagctctt gctggaggca gggctctggg gcgccctact cctcaccctt ggcttctctt 360
cctgagcgct ctgtgctctc cagaaatgaa gaaatggggg gagtccagcg gccaaacct 420
tgtcttagct cttagacatg cctcagagcct gccattccct gtgaggacag atttcctat 480
gttgcgaccg ctgcttctaa taataataat gatgatgaga attcccattt acagagcaca 540
ccatttatgg tgtgccagca ggccctgtgc tgagtgggtc ctaccacgt ggggggctag 600
gactttaccc gttttccaga tgaagaaact gaggcacaga gggcagatct g 651

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<210> 17  
 <211> 838  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> GATA-1 gene IE promoter (mutant)

<220>  
 <221> mutation  
 <222> (160)..(160)  
 <223> in vitro mutation (from "t" to "g")

<220>  
 <221> mutation  
 <222> (168)..(168)  
 <223> in vitro mutation (from "a" to "g")

<220>  
 <221> mutation  
 <222> (287)..(287)  
 <223> in vitro mutation (from "a" to "g")

<220>  
 <221> mutation  
 <222> (482)..(482)  
 <223> in vitro mutation (from "t" to "g")

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<220>  
 <221> mutation  
 <222> (498)..(498)  
 <223> in vitro mutation (from "a" to "g")

<220>  
 <221> mutation  
 <222> (798)..(798)  
 <223> in vitro mutation (from "t" to "g")

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 gaagttgagg ccaactgtccc tgggtgttcc taccgccaca ccctcacccc aagacagcct 120  
 gttactgogg cgccaacagc cacggtcgcc tacatctgag aagacttgtc tgctgccccca 180  
 gggcaggccg gagctggcgt aagccccagt ggggcgctaa gtgagtgtgc ccctgcctcc 240  
 cgccagcact ggcctggcct gcaggcttag cctgggtcat caagggtgcc cacaggctct 300  
 agttcaaata cagcagaacc tctctgagcc tcaactttct cacctgcaa atgggtacag 360  
 ccacatccct tctctccctg cagccaggaa gacgcacata cacaggagtc tagccacac 420  
 cggcccccga caaattaagg gctttactct ctgaaaagcc cagtgaagtc atgaaacat 480  
 agctgctatt ttcatttgtc ttggtttcag cctatittgc ttgtctggac actacagtcc 540  
 acgggagcct aggtcgagcg aggtccaaga atccccaggg tgggcaggga gggtggaaga 600  
 gggcctccag tgcccaagag gtgccccaca agcatgggac ccgccccctc ccctggactg 660  
 cccacccac tggggcacca gccactccct ggggaggagg gaggaggag aaggaggga 720  
 gggaggagg gaggaaggga gcctcaaagg ccaaggccag ccaggacacc ccctgggatc 780  
 acactgagct tgccacagcc ccaaggcggc cgaaccctcc gcaaccacca aagcttat 838